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APPLICATION NO.	FILING DATE	FIRST NAME	D INVENTOR		ATTORNEY DOCKET NO.
09/498.297	02/04/00	BURSTEIN		A	09464-009001
-			コ		EXAMINER
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Fish & Richa 2200 Sand H				ART UNIT	PAPER NUMBER
Menlo Park (CA 94025			2838 Date Mailed:	02/27/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STATES PARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

MMC1/0227

Fish & Richardson P. C. 2200 Sand Hill Road. Suite 100 Menlo Park CA 94025

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	09/498.297	02/04/00	043	PATEL, R		•	2838	02/2/1/01
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TITLE OF FLIP-CHIP SWITCHING REGULATOR

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3 99464-0990	101 323-2/62	.000 OF	UTILITY	YES	\$620.00	05/29/01

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u>

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

Application No.

09/498,297

Applicant(s)

Burstein et al.

Notice of Allowability

Examiner

Rajnikant Patel

Group Art Unit 2838



	herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.					
	∑ This communication is responsive to <u>Amendment dated 1/3/01</u> .					
	The allowed claim(s) is/are 1-4 and 6-44					
Å	The drawings filed on are acceptable.					
7	☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).					
	☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been					
	☐ received.					
	received in Application No. (Series Code/Serial Number)					
	received in this national stage application from the International Bureau (PCT Rule 17.2(a)).					
	*Certified copies not received:					
	☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).					
	A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).					
	□ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.					
	☑ Applicant MUST submit NEW FORMAL DRAWINGS					
	because the originally filed drawings were declared by applicant to be informal.					
	including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No.					
	including changes required by the proposed drawing correction filed on, which has been, which has been, approved by the examiner.					
	including changes required by the attached Examiner's Amendment/Comment.					
ø	Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal lettter addressed to the Official Draftsperson.					
	☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
	Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.					
	Attachment(s)					
	☐ Notice of References Cited, PTO-892					
	☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).					
	☐ Notice of Draftsperson's Patent Drawing Review, PTO-948					
	☐ Notice of Informal Patent Application, PTO-152 ☐ Interview Summary, PTO-413 ☐ One of Informal Patent Application, PTO-152					
	Examiner's Amendment/Comment					
	☐ Interview Summary, PTO-413 ☐ Examiner's Amendment/Comment ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material					
	X Examiner's Statement of Reasons for Allowance					
L_	ATTACHMENT TO PTO-37 FOR NEW HURWABILITY JOHM					

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DETAILED ACTION

Reasons For Allowance

1. The following is an examiner's statement of reasons for allowance:

Applicants invention claims that a voltage regulator with input and output terminals has a printed circuit board a substrate mounted on printed circuit board, a first flip-flop type integrated circuit chip mounted on the substrate. The first integrated circuit chips includes a first power switch fabricated therein to alternately couple decouple the input terminal to the output terminal. A filter disposed to provide a substantially DC voltage at the output terminal, and a control circuit controls the power switch to maintain the DC voltage substantially constant. Where in the flip chip type integrated circuit chip includes a p-type region and an n-type region, and a plurality of p= regions fabricated in the n-type region in a first array and a plurality of n= regions fabricated in the p-type region in a second array and wherein alternating p= regions are connected to the input terminal, and alternating n= regions connected to intermediate terminal and to ground. None of the cited art overcomes the limitation explained above, since the claims are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communications or earlier from the examiner should be 2. directed to Raj. Patel whose telephone number is (703) 305-7042. Any inquiry of a general nature or relating to the status of application should be directed to the Group receptionist whose telephone number is (703) 308-1782.

R. B. Patel

February 22, 2001